

## LISTING OF THE CLAIMS

### In the Claims:

A complete copy of the claims including status indicators appears below.

- 1 1. (Previously presented) A system for facilitating communication between fixed and handheld devices using infrared communication, said handheld device adapted to be operated by a user, said system comprising:
  - 4 a first infrared transmitter and a first infrared receiver, said first infrared transmitter and said first infrared receiver being located in said fixed device, said fixed device having a normal mode in which said first infrared transmitter transmits ranging pulses and said first infrared receiver detects those of said ranging pulses transmitted from said first infrared transmitter which are reflected by an object located in a predetermined area, said fixed device also having a communication mode, allowing bidirectional communication between said handheld device and said first device;
  - 11 a second infrared transmitter and a second infrared receiver, said second infrared transmitter and said second infrared receiver being located in said handheld device;
  - 13 second control logic located in said handheld device, said second control logic configured to cause an Attention Signal to be emitted from said second infrared transmitter in response to an initiation command provided by a user, said Attention Signal being received by said first infrared receiver if said second infrared transmitter in said handheld device is located within detection range of said first infrared receiver; and

18       first control logic located in said fixed device which is configured to discontinue  
19   transmission of ranging pulses of said first infrared transmitter upon detection of said  
20   Attention Signal, whereupon said fixed device changes from said normal mode to said  
21   communication mode, thereby allowing an optical communication link to be initiated  
22   between said first infrared transmitter and said second infrared receiver and between said  
23   second infrared transmitter and said first infrared receiver, and said first control logic  
24   causes first infrared transmitter to transmit signals representing device-specific data of  
25   said first device to said second infrared receiver of said handheld device over said optical  
26   communication link.

1   Claim 2 (Cancelled).

1   3.   (Previously presented) A system for facilitating communication between a fluid  
2   dispensing device and a handheld control device, said system comprising:  
3       a first transmitter and a first detector located in said handheld control device;  
4       said fluid dispensing device including a second transmitter and a second detector  
5   fluid dispensing device having a normal mode in which said second transmitter transmits  
6   ranging pulses and said second receiver detects those of said ranging pulses transmitted  
7   from said second transmitter which are reflected by an object located in a predetermined  
8   area, said fluid dispensing device also having a communication mode in which said  
9   second transmitter transmits signals to said handheld device;

10 broadcast control logic located in said fluid dispensing device and configured to  
11 respond to an initiation command provided by a user to emit from said second transmitter  
12 a Broadcast Signal indicating an error relating to an operating condition of said fluid  
13 dispensing device; and  
14 receiving control logic located in said handheld control device and configured to  
15 identify said Broadcast Signal following its receipt by said first detector.

1 4. (Previously presented) A method for communicating between fixed and handheld  
2 devices using infrared communication, said handheld device adapted to be operated by a  
3 user, said method comprising:  
4 providing a first infrared transmitter and a first infrared receiver which are located  
5 in said fixed device, said fixed device having a normal mode in which said first infrared  
6 transmitter transmits ranging pulses and said first infrared receiver detects those of said  
7 ranging pulses transmitted from said first infrared transmitter which are reflected by an  
8 object located in a predetermined area, said fixed device also having a communication  
9 mode, allowing bidirectional communication between said handheld device and said first  
10 device;  
11 providing a second infrared transmitter and a second infrared receiver which are  
12 located in said handheld device;  
13 emitting a user-initiated Attention Signal from said second infrared transmitter  
14 within the detection range of said first infrared receiver;

15 receiving the Attention Signal with said first infrared receiver if said second  
16 infrared transmitted in said handheld device is located within detection range of said first  
17 infrared receiver;

18 discontinuing the transmission of said ranging pulses from said first infrared  
19 transmitter;

20 establishing an optical data link between said first infrared transmitter and said  
21 second infrared receiver and between said second infrared transmitter and said first  
22 infrared receiver; and

23 causing said first infrared transmitter to transmit signals representing device-  
24 specific data of said first device to said second infrared receiver over said optical data  
25 link.

1 5. (Previously Presented) A system as defined in Claim 1, wherein said first infrared  
2 receiver comprises an infrared detector capable of detecting said Attention Signal and  
3 said ranging pulses.

1 6. (Previously presented) A system as defined in Claim 1, wherein said second  
2 infrared receiver comprises an infrared detector capable of detecting signals generated  
3 from said first infrared transmitter when said fixed device is in said communication  
4 mode.

1    7.    (Previously Presented) A system as defined in Claim 1, wherein said fixed device  
2    comprises a fluid dispensing device.

1    8.    (Previously Presented) A system as defined in Claim 7, wherein said fluid  
2    dispensing device is actuated to dispense fluid upon the receipt of reflected ranging  
3    pulses by said first infrared receiver.

1    9.    (Previously presented) A system as defined in Claim 1, wherein signals generated  
2    from said first infrared transmitter when said fixed device is in said communication mode  
3    provide an indication of the operational status of said fixed device.

1    10.   (Previously presented) A system as defined in Claim 1, wherein signals generated  
2    from said second infrared transmitter when said fixed device is in said communication  
3    mode are used to interrogate said fixed device.

1    11.   (Previously presented) A system as defined in Claim 1, wherein signals generated  
2    from said second infrared transmitter when said fixed device is in said communication  
3    mode are used to program said fixed device.

1    12. (Previously presented) A system as defined in Claim 1, wherein signals generated  
2    from said second infrared transmitter when said fixed device is in said mode are used to  
3    provide information relating to the past operation of said fixed device.

1    13. (Previously Presented) A system as defined in Claim 1, wherein said ranging  
2    pulses each comprise a sequence of pulses.

1    14. (Previously presented) A system as defined in Claim 1, wherein said ranging  
2    pulses comprises pulses having a repetition rate of four Hertz.

1    Claims 15-18 (Cancelled).

1    19. (Previously Presented) A system as defined in Claim 1, wherein said first infrared  
2    receiver and said second infrared receiver each comprise at least one photo detector.

1    20. (Previously Presented) A system as defined in Claim 1, first infrared transmitter  
2    and said second infrared transmitter each comprise an LED.

1    21. (Previously Presented) A system as defined in Claim 1, additionally comprising a  
2    threshold detector for comparing said reflected ranging pulses to a threshold value.

- 1    22. (Previously presented) A system as defined in Claim 1, wherein said handheld
- 2    device is selectively operable to provide a plurality of user selected functions, including
- 3    sending a status request, sending a set command and sending a program command.
  
- 1    23. (Previously presented) A system as defined in Claim 1, wherein the duration of
- 2    said Attention signal is greater than the duration of a normal pulse cycle for the ranging
- 3    pulses.
  
- 1    24. (Previously presented) A system as defined in Claim 1, wherein the initiation
- 2    command provided by the user causes the second control logic to initiate a scanning
- 3    function to search for Broadcast signals.